

WHAT IS CLAIMED IS:

1. A variable resistor comprising:
an insulating substrate having a substantially arch-shaped resistor provided on a surface thereof; and
a sliding contact rotatably attached to the insulating substrate; wherein
the sliding contact includes a body including a contact arm sliding over the resistor and a disk section for supporting the contact arm and a driver plate overlapping the body for being operated by a tool; and
a step is disposed on a surface of the sliding contact having the contact arm provided thereon and also at a position of the contact arm opposing a contact such that a gap between the driver plate and the contact arm is increased.
2. A variable resistor according to Claim 1, wherein the step is defined by a recess provided in the driver plate.
3. A variable resistor according to Claim 1, wherein the insulating substrate is made of at least one of a thermoplastic resin and a thermo-setting resin.
4. A variable resistor according to Claim 1, further comprising stationary-side terminals provide on a top surface of the insulating substrate such that conduction portions of the stationary-side terminals are exposed.
5. A variable resistor according to Claim 4, wherein the resistor is defined by carbon coated on a top surface of the insulating substrate in a substantially arch-shaped configuration so as to cover the conduction portions of the stationary-side terminals.
6. A variable resistor according to Claim 4, wherein the stationary-side terminals are made of a highly conductive material, and the stationary-side terminals are plated with a noble metal to improve solder wettability.

7. A variable resistor according to Claim 1, wherein the driving plate includes a substantially cross-shaped engagement hole for being operated by the tool.

8. A variable resistor according to Claim 1, wherein the contact arm has a semi-circular shape.

9. A variable resistor according to Claim 1, wherein the disk section is folded backwards from an external edge of the driving plate.

10. A variable resistor according to Claim 9, wherein the contact arm is provided at an external edge of the disk section opposite to the portion of the disk that is folded backwards from the external edge of the driving plate.

11. A variable resistor according to Claim 1, wherein the sliding contact is made of a highly conductive material having spring characteristics.

12. A variable resistor according to Claim 1, further comprising a variable-side terminal including an eyelet portion, wherein the disk section is provided with a fitting hole at an approximate center thereof for fitting to the eyelet portion of the variable-side terminal.

13. A variable resistor according to Claim 12, wherein the sliding contact is rotatably attached to the insulating substrate by outwardly caulking the eyelet portion of the variable-side terminal.

14. A variable resistor according to Claim 1, wherein the contact arm includes a protruding contact provided at an approximate center thereof, such that the contact is brought into contact with the resistor.

15. A variable resistor according to Claim 1, wherein the insulating substrate is a ceramic insulating substrate.

16. A variable resistor according to Claim 15, wherein a top surface of the ceramic insulating substrate is coated with cermet in a substantially arch-shaped configuration to define the resistor.